

Mamuzic, Z.

Various topologic (uniform) structures defined on the E set by the application of f (ExE) M in a (whatever) ordered M set. p. 185.

CROATICA CHEMICA ACTA. (Hrvatsko kemijsko drustvo, Sveuciliste u Zagrebu i Hrvatsko prirodoslovno drustvo) Zagreb, Yugoslavia. Vol. 7, no. 3/4, 1955

Monthly list of East European Accessins (EEAT) LC, Vol. 8, no. 8, Aug. 1959

Uncl.

MAMUZIC, Zlatko (Beograd, ul. Zeceviceva 7)

"Linear algebra, Analytic geometry, Polynomials" by D.S. Mitrionovic and D. Mihailovic. Reviewed by Z. Mamuzic. Ves mat fiz Srb no.11:217-219 '59.

1. Sekretar Uredivackog odbora, "Vesnik Drustva matematicara i fizicara Narodne Republike Srbije."

MAMUZIC, Zlatko (Beograd, ul. Zeceviceva 7)

"Collection of mathematical problems with appendixes and numerical tables, Vol.3" by Dr. D.S. Mitrinovic, J. Ulcar, and Dr. V. Devide. Reviewed by Z. Mamuzic. Ves mat fiz Srb no.12:181-182 '60.

1. Sekretar Uredivackog odbora, "Vesnik Drustva matematicara i fizicara Narodne Republike Srbije."

MAMUZIC, Z. P.

Abstract difference and uniform structures. Bul sc Youg 8 no. 1/2: 19 F-Ap '63.

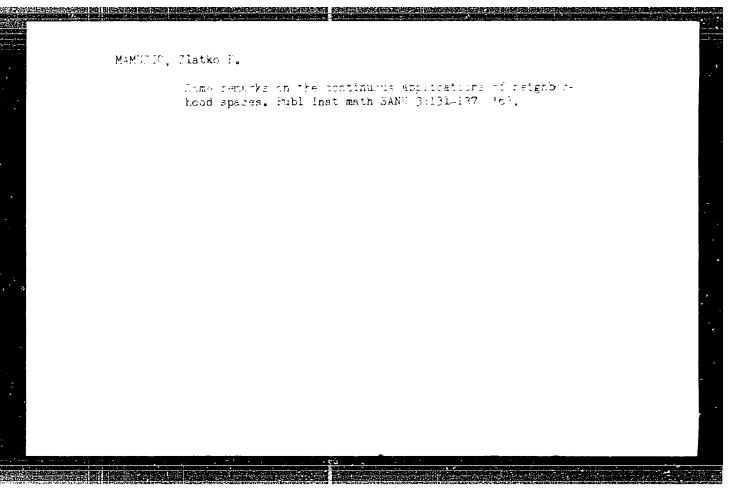
1. Masinski fakultet, Univerzitet, Beograd.

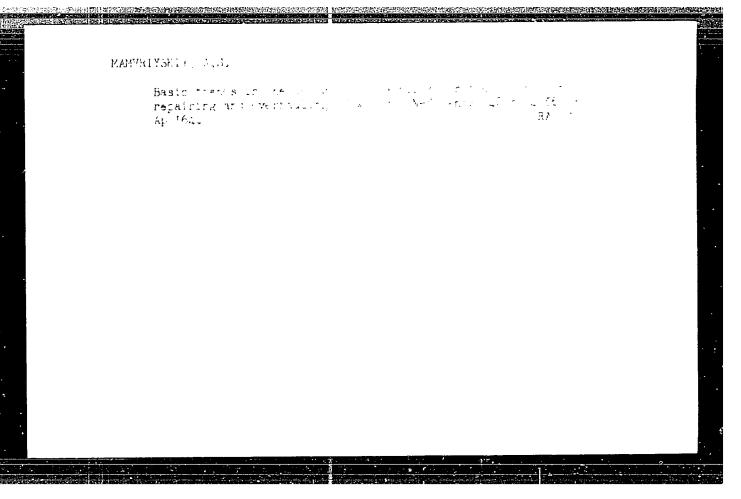
Solution of a problem related to etspaces. In French. p. 95. (Glasik Matematicko-fizicki I astronomski, Vol. 11. No. 2, 1956, Zagrab.

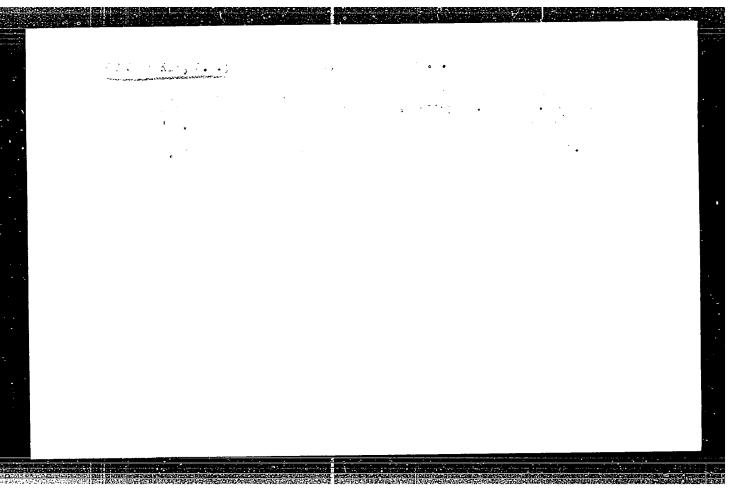
MAMUZLE, Z.

Yugoslevia)

SU: Monthly List of East European Accessions (EMAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.







Efficiency of corrosion inhibitors for carrying on the acidization of K-p wells. Gaz. delo no.10:18-20 '65.

(MIRA 18:12)

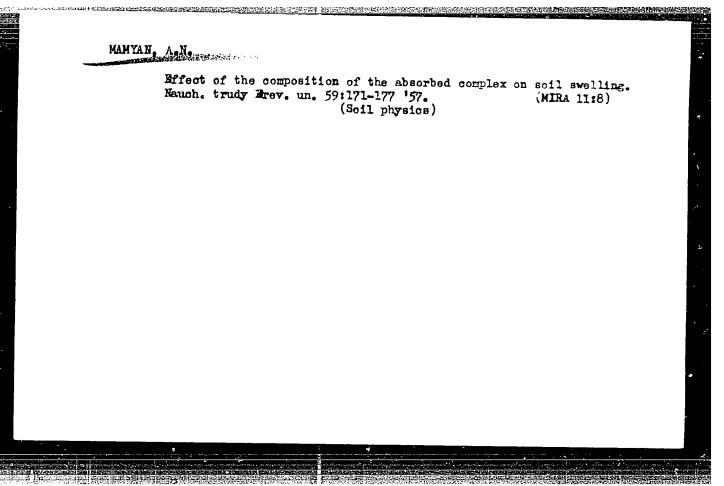
i. Groznenskiy neftyanoy nauchno-issledovatel'skiy institut.
Submitted January 8, 1965.

MAMYAN, A.H.

Petential shift in the separation of copper from cupric sulfate in presence of acetylene. Nauch.trudy Erev.um. ne.53:127-135 '56.

1.Kafedra fizicheskey khimii.

(Copper--Electrometallurgy)



CHAITYKYAN, O.A.; MAMYAN, A.N.; MOVSESYAN, R.V.

Catalytic action of copper iodide on the exidation of exalate ion by perfulfate ion. Nauch. trudy Erev. un. 60:135-142 '57.

(MIRA 11:8)

1.Kafedra fizicheskoy khimii Yerevanskogo gosudarstvennogo universiteta.

(Copper iodide) (Oxalates) (Peroxidisulfates)

MAMYAN, B.A., kand.sel'skokhozyaystvennykh nauk

Work results in the improvement of swine breeds and increase of their productivity in the Armenian S.S.R. Trudy Arm. nauch.-issl. inst.zhiv. i vet. 4:11-21 '60. (MIRA 15:5)

(Armenia--Swine breeding)

ANUFRIYEV, G.S.; MAMYRIN, B.A.

Transit-time mass spectrometer with stroboscopic transformation of the output signal. Prib. 1 tekh. exsp. 9
no.5:150-157 S-C '64. (MIRA 17:12)

1. Fiziko-tekhnioheskiy institut AN SSSR.

POPOVA, L.; BUSH, G., inzh.; BARANOVA, P.; KUZNETSOV, P.; MER, N.; LADYGIN, A.; PREOBRAZHENSKIY, Yu.; STEPANOV, V.; BELINSKENE, A.; SHUBIN, V.; SEROV, E., MARYAN, K.

From speeches at a conference in Riga. Izobr.i rats. no.4:6-9
Ap '62. (MIRA 15:4)

1. Uchenyy sekretar; nauchno-motodicheskogo soveta po rabote narodnykh universitetov kulltury Pravleniya Vsesoyuznogo obshchestva po rasprostraneniyu politicheskikh i nauchnykh znaniy (for Popov). 2. Rizhskiy myasokonservnyy kombinat (for Bush). 3. Predsedatel: L'vovskogo dorozhnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Baranova). 4. Prorektor universiteta tekhnicheskogo tvorchestva Amurskoy oblasti (for Kuznetsov). 5. Glavnyy inzh. lokomotivnogo depo Moskva-Sortirovochnaya, zamestitel' rektora narodnogo universiteta (for Mer). 6. Predsedatel' soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov Kovo-Kramatorskogo mashinostroitel'nogo zavoda (for Ladygin). 7. Predsedatel Litovskogo respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Belinskene). 8. Zamestitel: dekana universiteta tekhnicheskogo tvorchestva pri Leningradskom Dvortse kulitury imeni Kirova (for (Continued on next card)

POPOVA, L. --- (Continued) Card 2.

Shubin). 9. Obshchestvennyy rektor universiteta novoy tekhniki pri Vsesoyuznom zaochnom institute inzhenerov transporta, Moskva (for Serov). 10. Obshchestvennyy direktor Kirovakanskogo instituta tekhnicheskogo tvorchestva molodykh ratsionalizatorov (for Manyan).

11. Obshchestvennyy direktor Kiyevskogo universiteta po povysheniyu tekhnicheskikh znaniy izobretateley i ratsionalizatorov (for Stepanov). 12. Obshchestvennyy rukovoditel Bashkirskogo instituta novatorov stroitel noy industrii (for Preobrazhenskiy).

(Rigar-Technical education—Congresses)

23502-66 EWA(h)/EWP(k)/EWT(m)/T/EWA(d)/EWP(a)/EWP(w)/EWP(t) JJP(c) ACC NR: AP6009611 SOURCE CODE: UR/0369/66/002/001/0084/0088 AUTHOR: Artamonov, A. Ya.; Mamykin, E. T. ORG: Institute of the Science of Materials, AN Ukr SSR, Kiev (Institut problem materialovedeniya AN Ukr SSR) TITLE: Interaction of materials with lubricants in the process of friction SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 1, 1966, 84-88 TOPIC TAGS: lubrication, lubricating oil, film lubrication, antifriction material, cermet, porosity ABSTRACT: A study has been made to improve the capacitor method of measurement for the oil film thickness between rubbing surfaces and to determine the causes of the break down of this film in friction couples involving porous cermets and solid materials. The tests were made on an MT-3 machine described and diagrammed in the original artigle. SU brand oil was used as the lubricant. Cermets from APZhMa brand iron powder, having 10-30% pornsity, aintered in dry hydrogen at 1150 C were tested. The solid materials (B83 babitt, OF7 bronze) and steel 30) were tested for comparison. It was found that the behavior of the

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lubricant in the cle on the method of it surface layer form bility and different	ubricant fe ned in the t chemical	eding to to process of interaction	he friction f friction. on of the l	n zone as In view ubricant	on the of the with sur	condition different rfaces of	of the melta- different
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AUTHOR: Fedorchenko, I. M.; Draygor, D. A. (deceased); Mamykin, E. T.

ORG: Institute of Materials Science Problems, AN UkrSSR, Kiev (Institut problem material ovedeniya AN Ukr SSR)

TITLE: Wearing in of iron-base cermet materials

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 6, 1965, 670-674

TOPIC TAGS: iron, aluminum, zinc sulfide, oleic acid, antifriction material, lubricant additive, cermet wear material, boron compound

ABSTRACT: The effect of iron and aluminum organosols, boron nitride, zinc sulfide, and oleic acid as active additives to lubricants on the initial period of operation of friction couples was studied on samples of 2FP fron-base antifriction material (containing 4% ZnS and 1.5% graphite). The samples had a ferrite-pearlite structure. The additives were found to improve the operation of the friction couple considerably during the wearing in period. They make it possible to carry out the wearing in of the couple at high initial specific pressures, and if the lubrication system is reliable, they protect the rubbing surfaces from gripping. A change in the content of additive in the lubricant Card 1/2

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content whice minimum from period. A content which is a content which	h decreases the wiction coefficient a composite additive ance of a friction.	ear of an <u>antifric</u> are observed at a (zinc sulfide + ol	tion bushing\most content which give eic acid) has been	Thus, the additive effectively and the es the longest wearing obtained which impring art. has: 1 figures.	g-in oves
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DANDERS, Ya.; YATSEVICHUS, I. [Jacevicius, I.]; GOL'DENBERG, A.; KHARIN, B., inzh. (Leningrad); MOVA, N., inzh.; VINNIKOV, F. (Gomel');

MAMYKIN, I.: (Gomel'); BENDERSKIY, A., starshiy inzh. (pos. Igra, Udmurtskoy ASSR); CHERTETSOV, V.; OSIPOV, I.; SIKOTININ, M.I.

Exchange of news and experience. Izobr.i rats. no.4:25-26 Ap :62. (MIRA 15:4)

1. Sekretar! Respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorv, g. Riga (for Danders).

2. Glavnyy inzh. mezhdugorodnoy teleformoy stantsii, g. Vil'nyus (for Yatsevichus). 3. Predsedatel! oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov g. Ufa (for Gol'denberg). 4. Krayevoy sovet Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Krasnodar (for Mova).

5. Igrinskiy lespromkhoz kombinata "Udmurtles", (for Benderskiy).

6. Predsedatel! Krasnoyarskogo krayevogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Sirotinin).

(Technological innovations)

L 07504-67

ACC NRI AP6019558

SOURCE CODE: UR/0416/66/000/001/0072/0076

AUTHOR:

Mamykin, N. (Lt. Co... of technical corps)

19 13

ORG:

none

TITLE:

All-army inspection of pipelaying subunits

SOURCE:

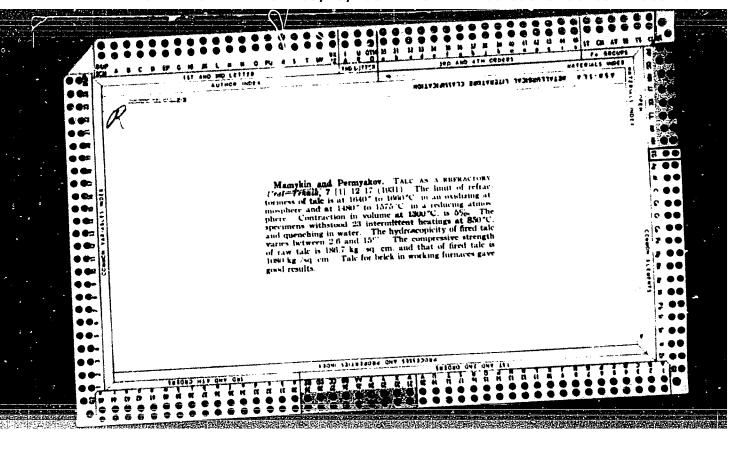
Tyl i snabzh sov vooruzh sil, no. 1, 1966, 72-76

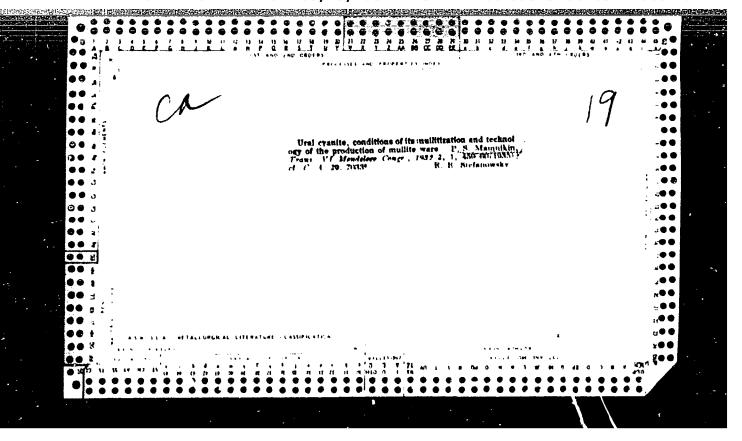
TOPIC TAGS: pipeline, military engineering

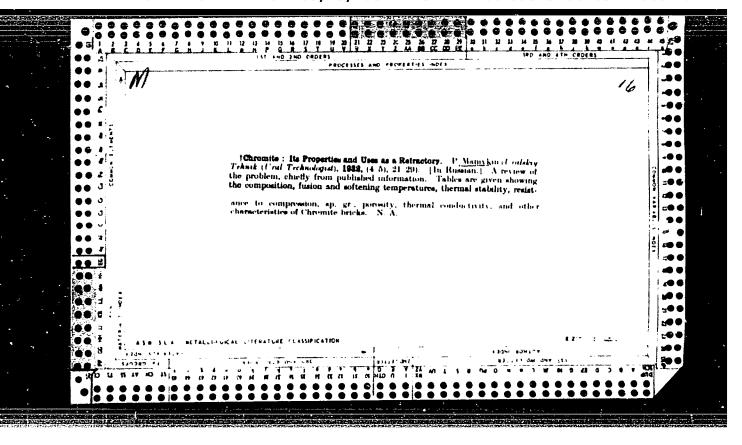
ABSTRACT: This article describes the preparation for and the conduction of an inspection of military pipe-laying subunits. The results of the inspection revealed that all subunits that participated in the inspection were well prepared. The winners of the inspection and their awards, which ranged from a challenge cup, certificate, and money for first place to certificates for second and third place, are given. Now the personnel of the pipe-laying subunits must not only maintain the results achieved and eliminate the shortcomings that were found, but they must reach even higher indexes in the next inspection which is planned for 1967. During the period of preparation for the next inspection they will have to achieve a further increase in the rate of laying pipelines and increasing their productivity, study and master new equipment, improve methods of laying pipelines in contaminated areas and under complex conditions, and to increase the reliability of the work of field pipelines. The preparation of the next

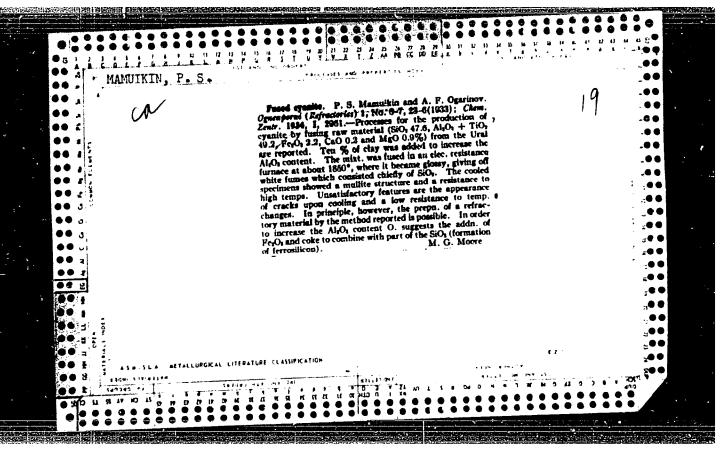
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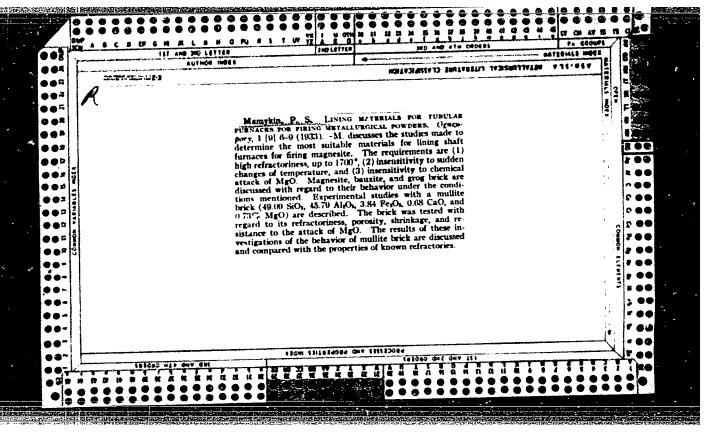
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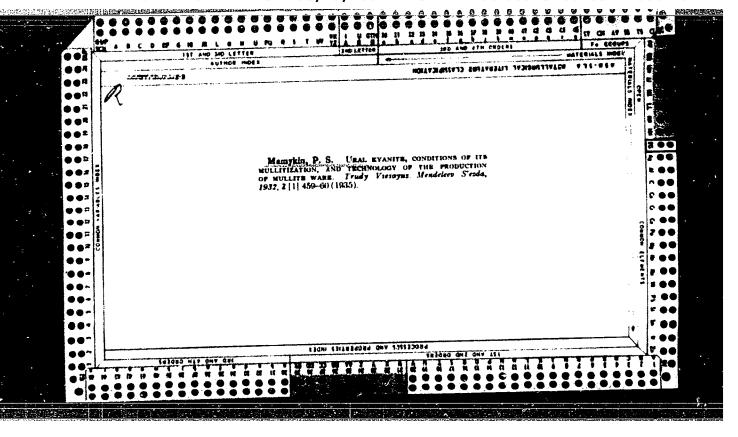


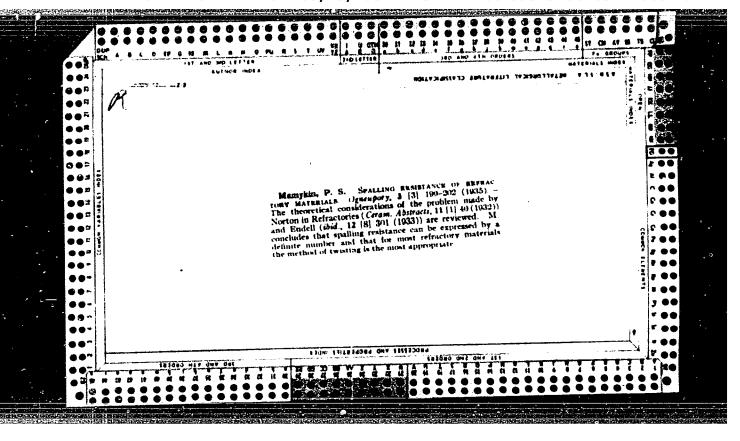


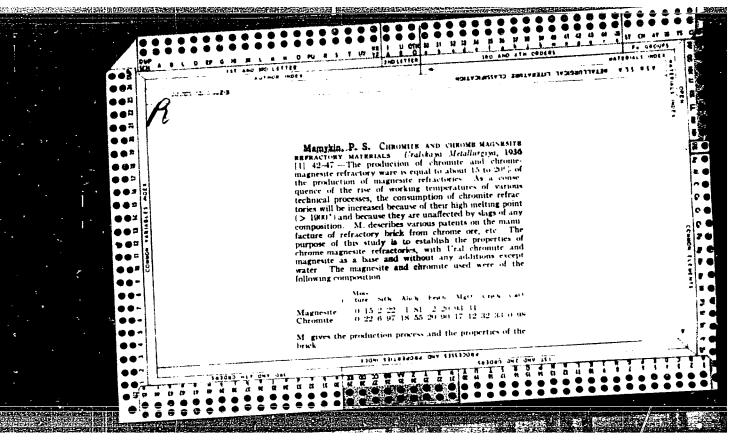




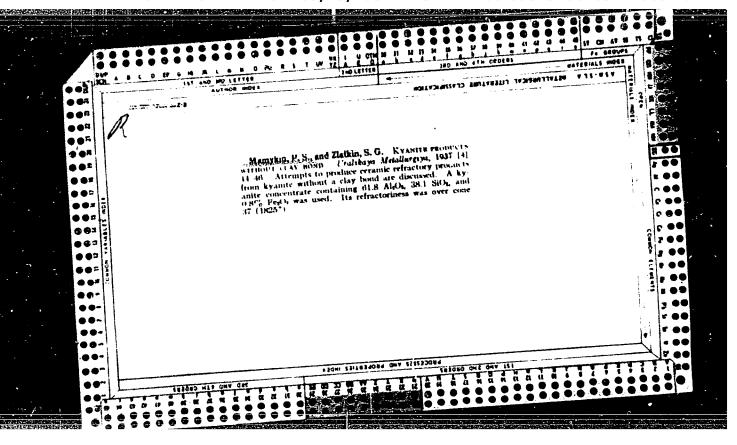


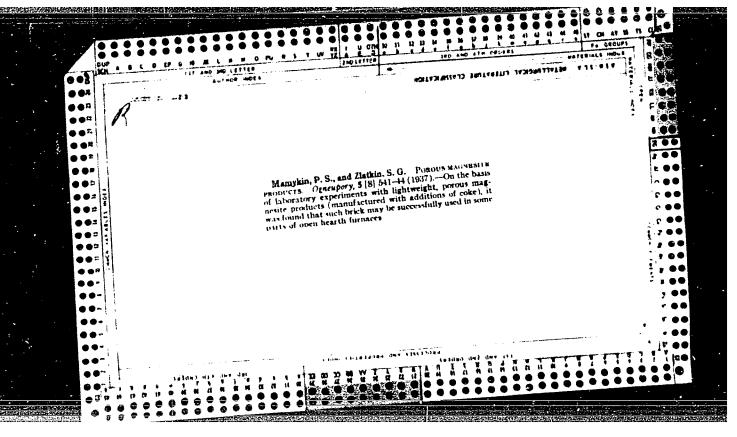


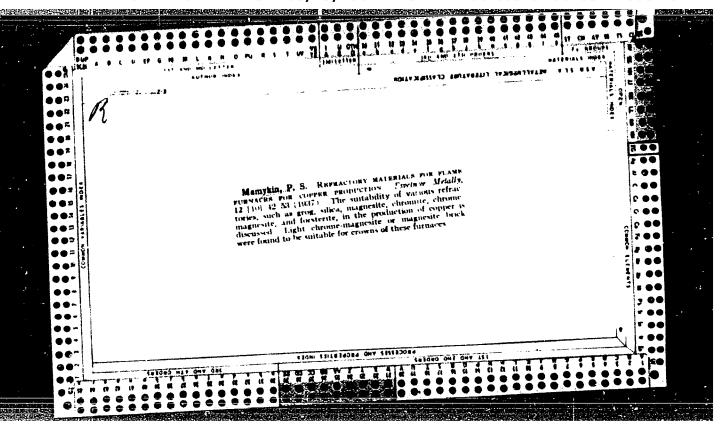


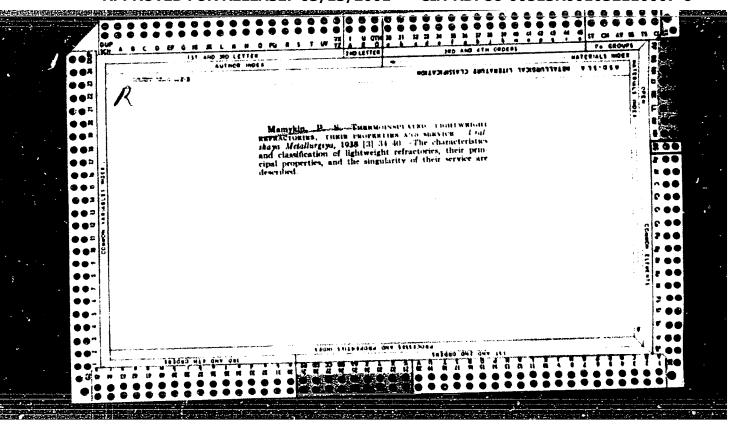


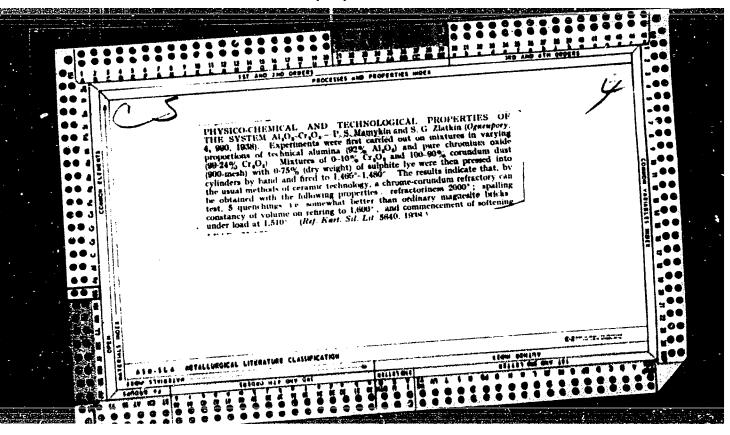
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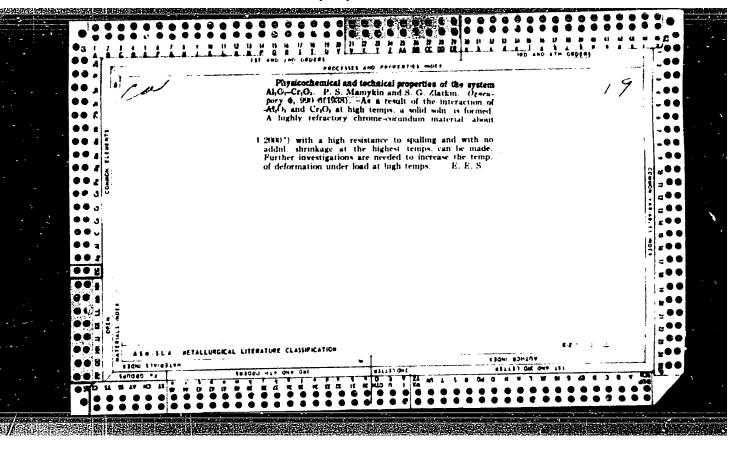


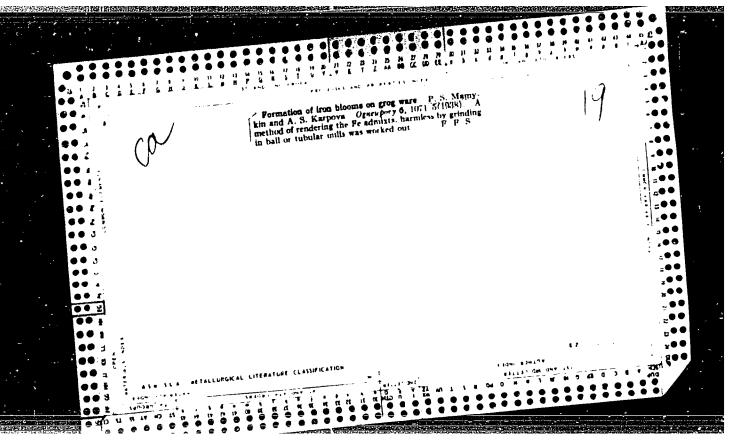


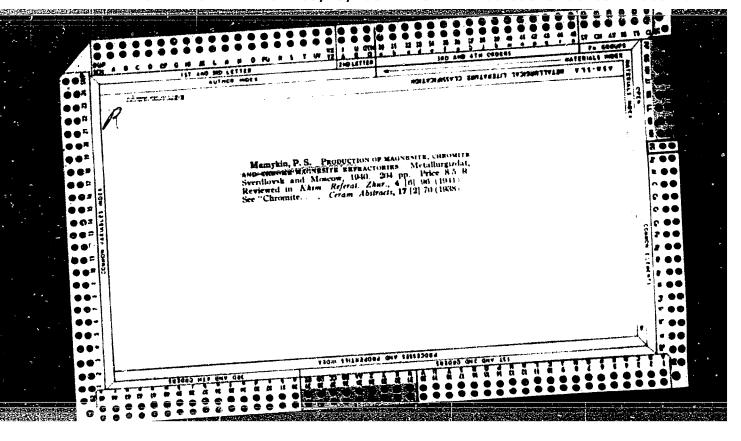


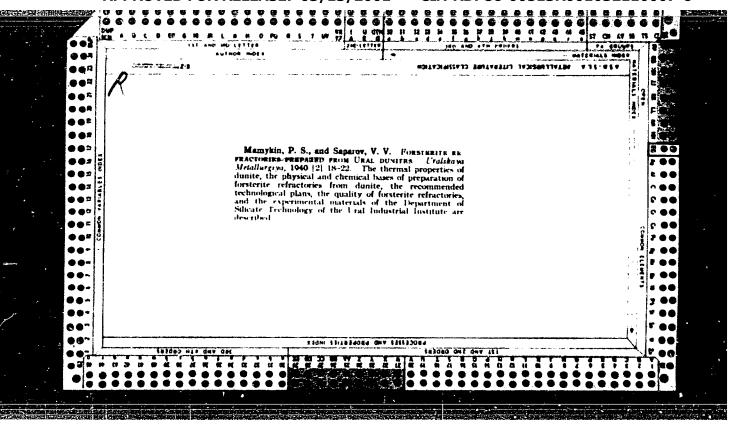


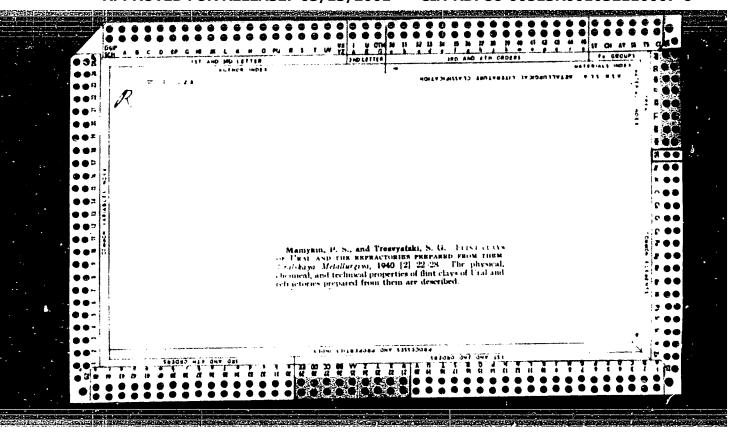


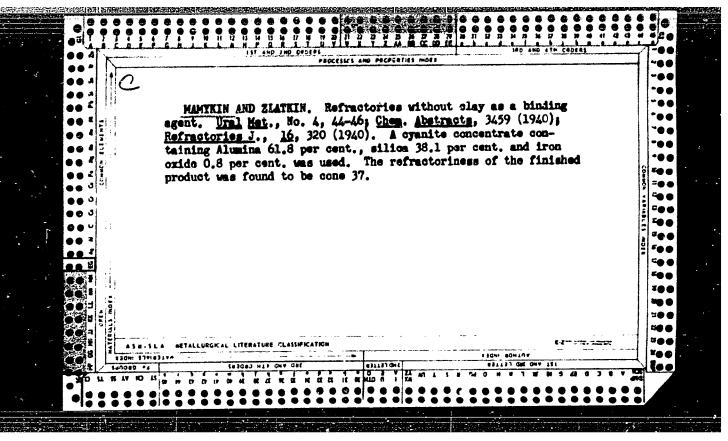




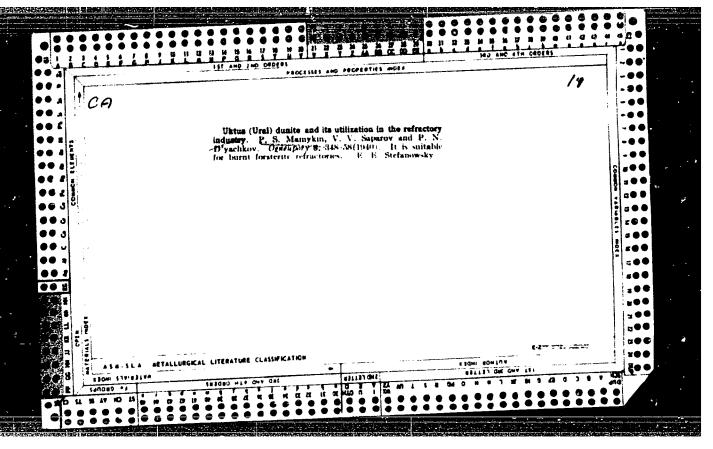


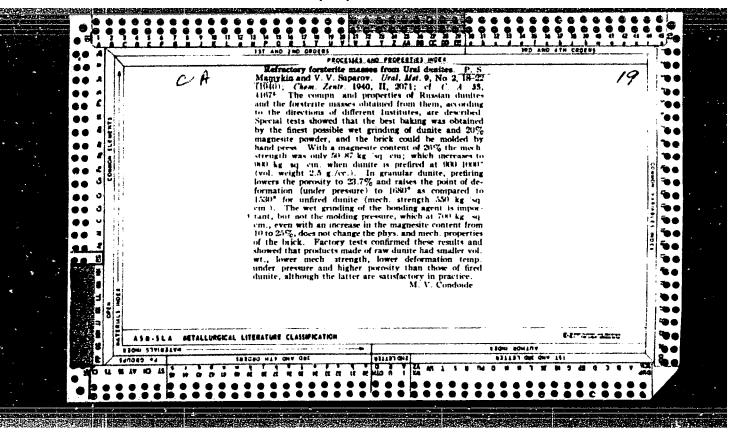


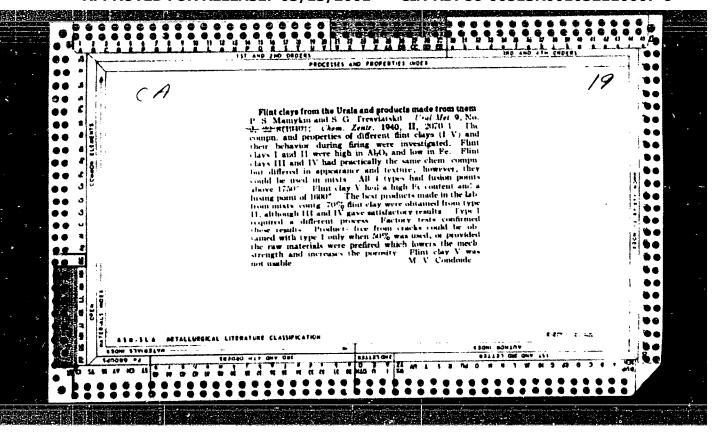


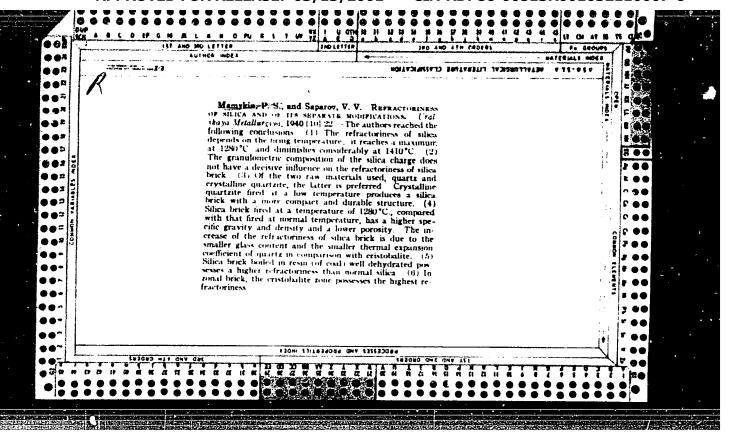


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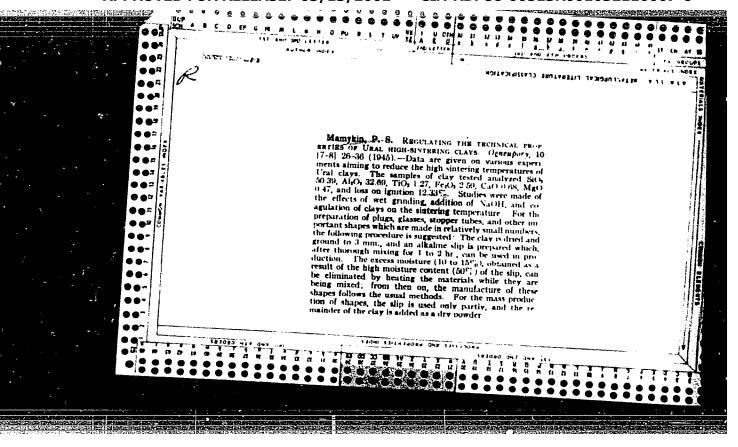
BAS'YAS, Igor' Pavlovich; CHERNOGOLOV, Aleksey Ivanovich; MAMYKIN, P.S., prof., retsenzent; LEVCHENKO, P.V., red.; SKOROBOGACHEVA, A.P., red. izd-va; CHAPAYKINA, F.K., red. izd-va; TURKINA, Ye.D., tekhn. red.

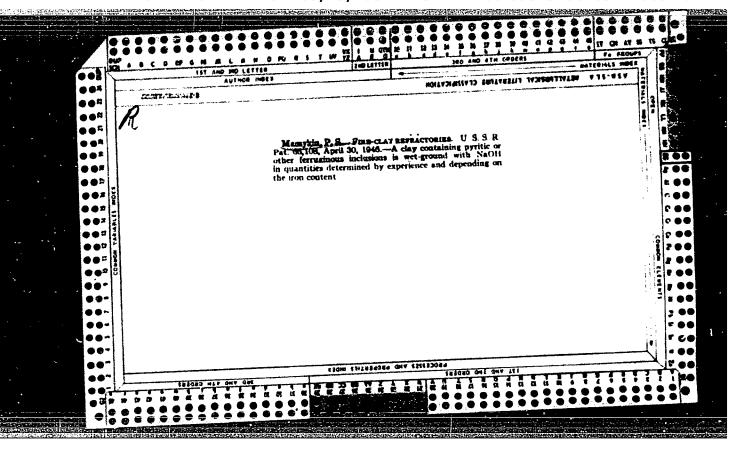
[Open-hearth furnace regenerators] Regeneratory martenovskikh pechei. Sverdlovsk, Gos. nauchno-tekhm. izd-vo lit-ry po chernoi i tsvetnoi metallurgii Sverdlovakoe otd-nie, 1961. 174 p. (MIRA 14:7) (Open-hearth furnaces—Equipment and supplies) (Heat regenerators)

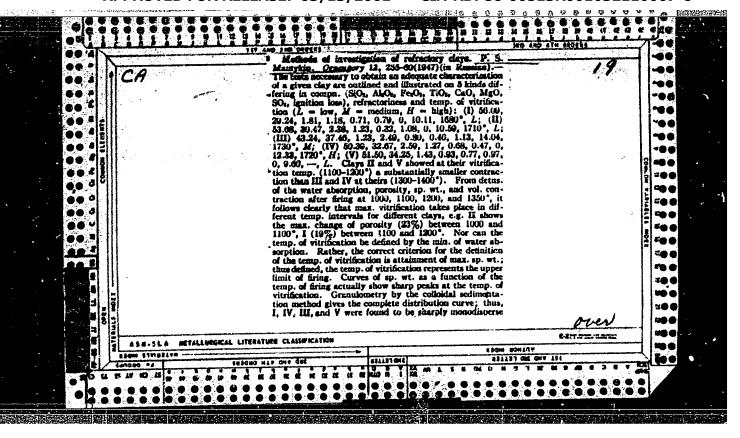
BELYANKIN, D. S.; LAPIN, V.V.; MANYKIN, P. S.

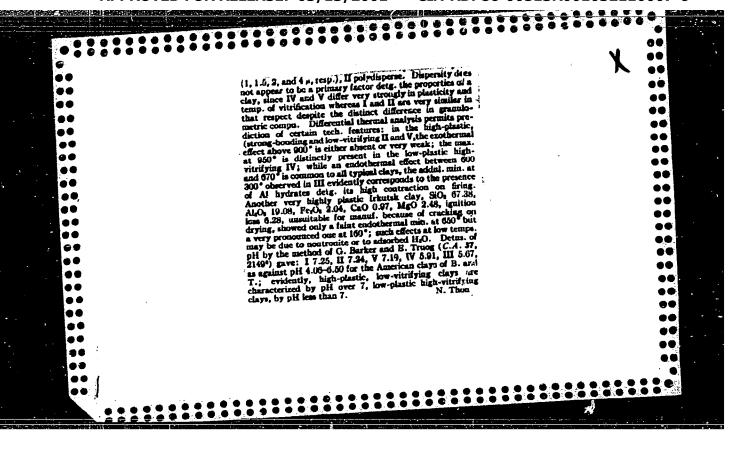
"About One Case of Abnormally Rapid Legletion of Dinas Brick in the Drown of an Open Hearth Furnace." Iz. Ak. Mark SSSR, Ctdel, Tekh. Mark, No 1-2-19cm.

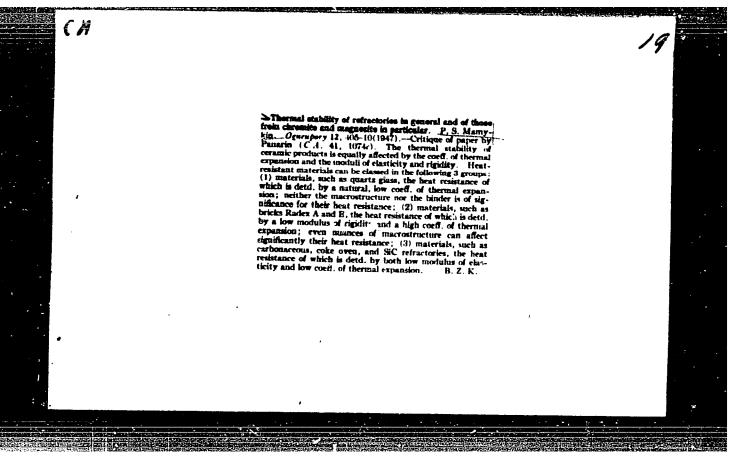
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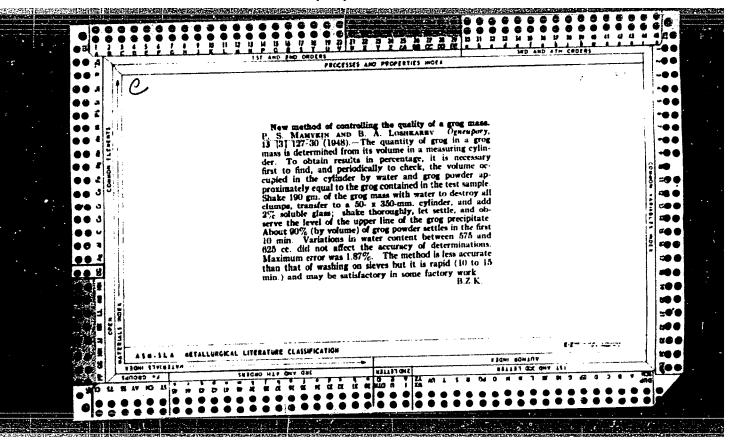


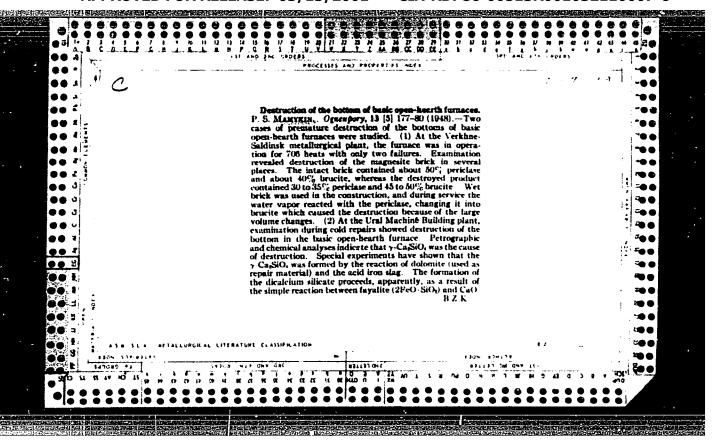


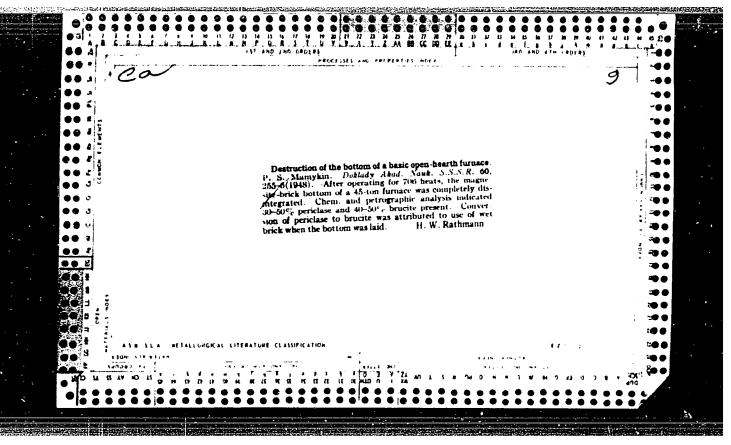


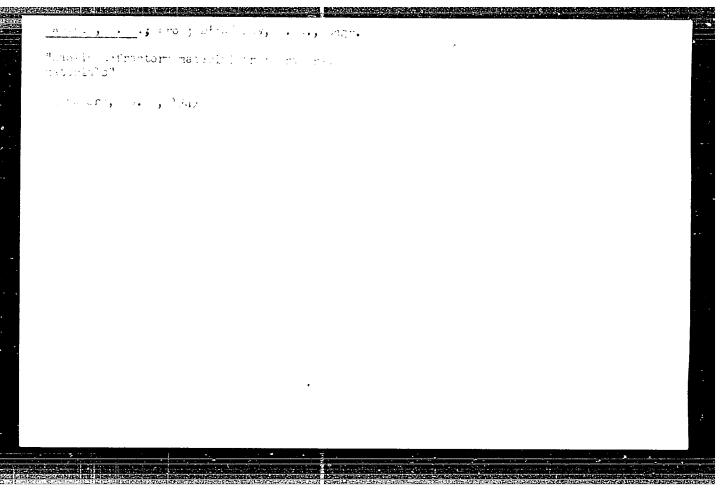








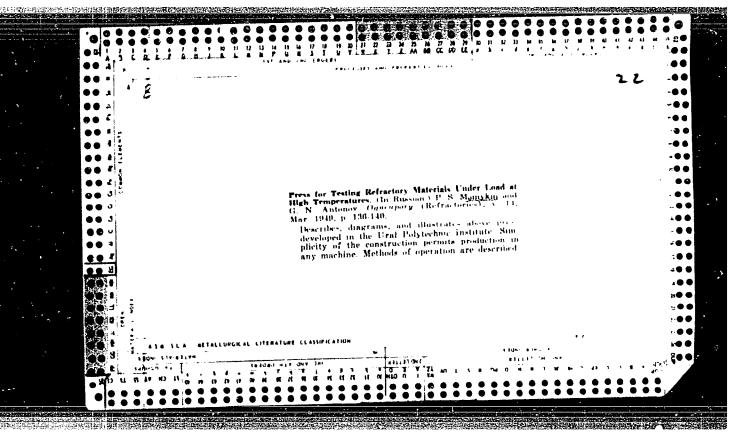


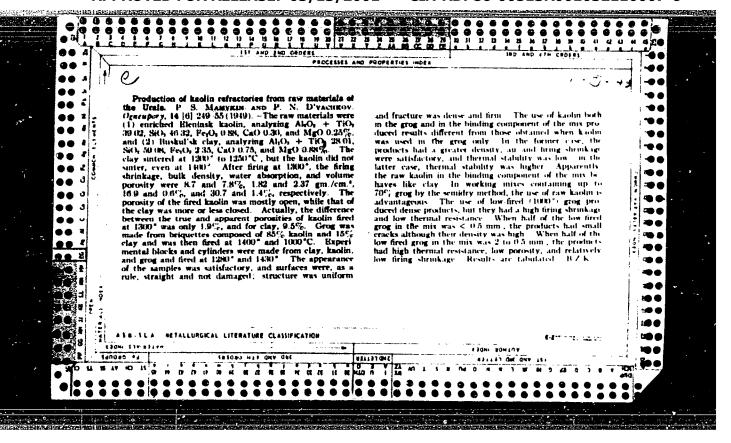


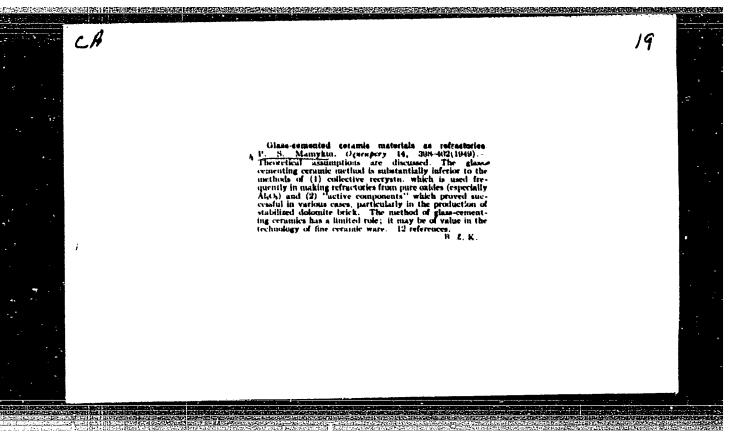
MAMYKIN, P. S.

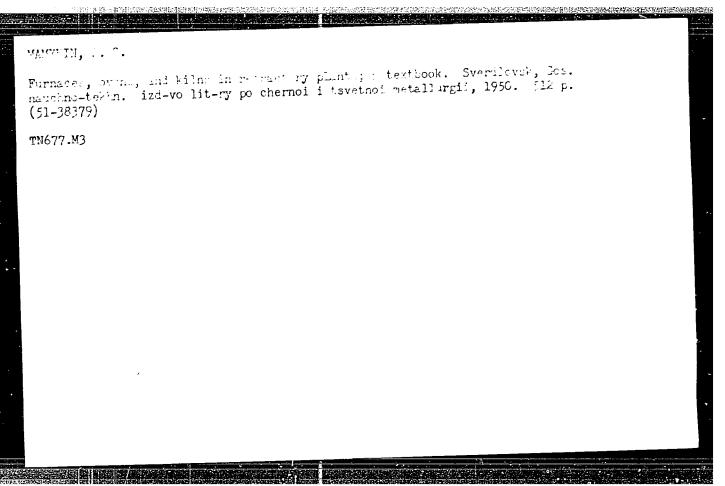
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Goncharova ((0 Steklokeramike Kak Ogneupornom Materiala)) V Zhurn.
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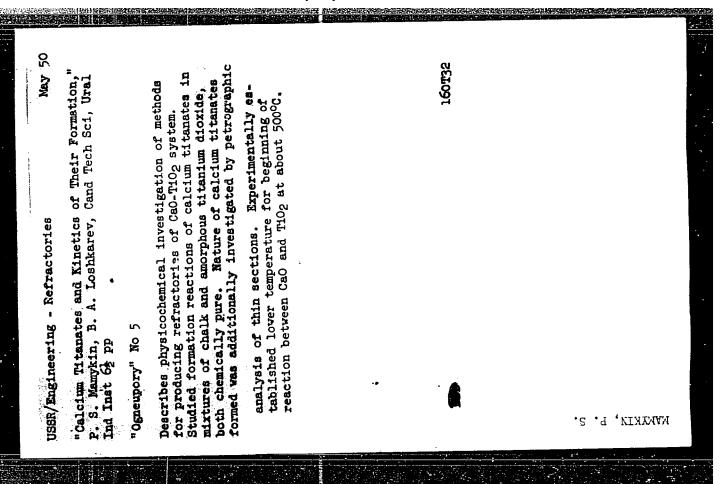
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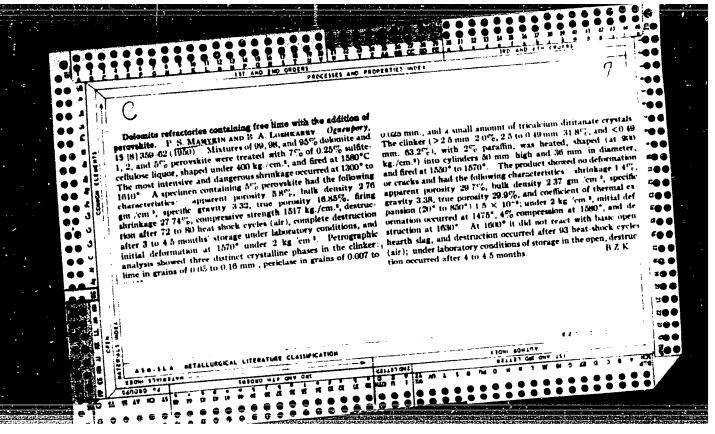


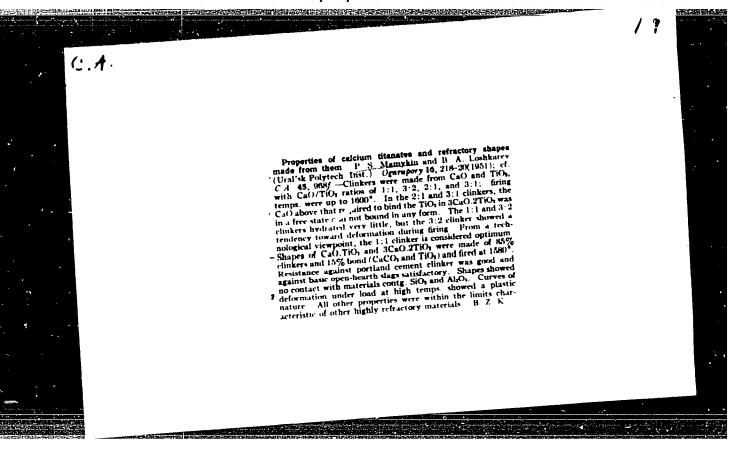


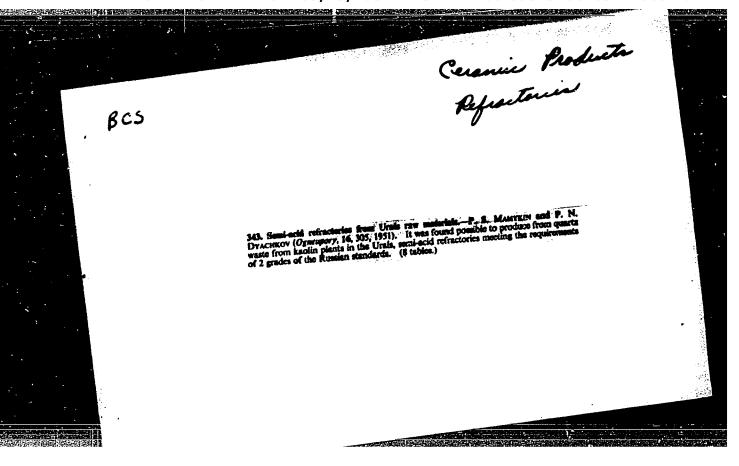












MAMYKIN, P. S.

USSR/Engineering - Refractories, Processes 11 Oct 51

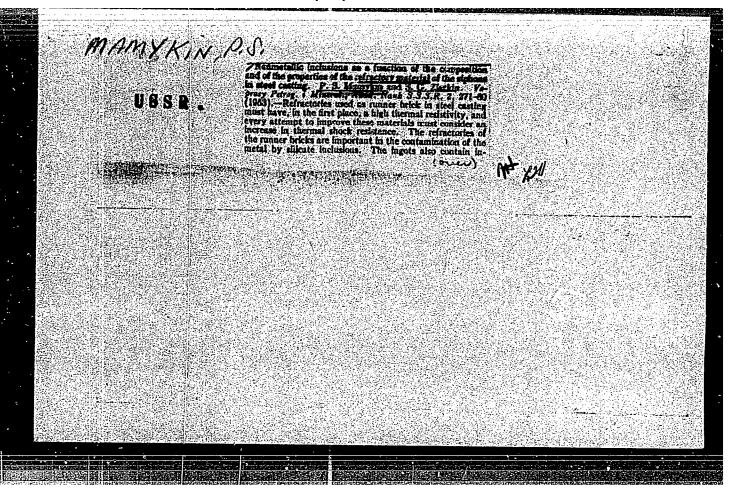
"Sublimates on Heating Silicates in Reducing Atmosphere," P. S. Mamykin, P. V. Gel'd and N. N. Buynov

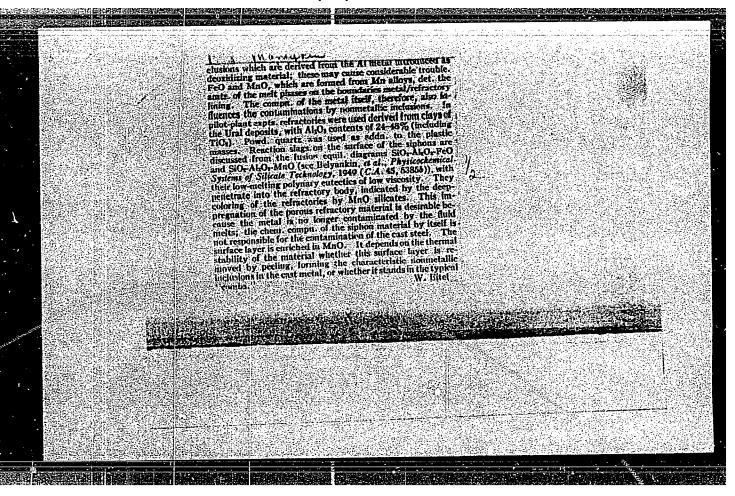
"Dok Ak Nauk SSSR" Vol LXXX, No 5, pp 801-804

Investigates phenomenon of pneumatological transfer of silica during high-temp firing of silicates. Reviews several cases of silica sublimation and discusses expts of firing crucibles made of carborundum fire clay mixt at 1,500° C. Presents several micrographs obtained with electron microscope. Submitted by Acad D. S. Belyankin 15 Aug 51.

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USSR/Engineering - Refractories, Technology Magnesite, Technology "On the Methods for Rational Fabrication of Magnesite High-Refractory Products on the Basis of Materials From Satks Deposit," Dr P.S. Mamykin, Prof. Joral Polytech Inst imeni Kirov "Ogneupory" No 7, pp 291-297 "Ogneupory" No 1, 1952. Chief shortcoming of work "Ogneupory" of alrect tests of magnesites for slag resistance which should be considered as leading resistance in metallurgical magnesite.	P. 5., Dr.	, CEIXHAM





MAMYKIN, P.S., prof. doktor; D'YACHKOV, P.N., insh.

Hagnesite wastes from the Shabrovskiy talcum wine used as raw material for the manufacture of refractories. Ogneupory 18 no.2:69-76 F '53. (MIRA 11:10)

1. Ural'skiy p 'tekhnicheskiy institut im. S.M. Kirova. (' provskiy--Magnesite) (Refractory materials)

HANYKIN, P.S.

Processes in the manufacture of chromite-magnesite refracteries and improvement of their quality. Ognoupery 18 no.6:243-256 Je 153. (MIRA 11:10)

1. Ural'skiy pelitekhnicheskiy institut imeni S.M. Kereva. (Refracteries industry-Quality control)

OGARKOV, A.F., inzh.; MAMYKIN, P.S., prof., dokter

Porosity and gas permeability of grog refractories depending an the original clay and the method of their manufacture. Ogneupory 18 no.8:345-356 '53. (MIRA 11:10) (Refractory materials--Testing)

MAMYAKIN, Petr Sergeyevich; BRON, V.A., redaktor; LUCHKO, Yu.V., redaktor; KOVALENKO, N.I., tekhnicheskiy redaktor

[Refractory articles; their properties, mammfacture technology and use in industrial furances] Ogneupornye isdeliia; svoistva, tekhnologiia isgotovleniia i sluzhba v promyshlennykh pechakh. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii Sverdlovskoe otd-nie, 1955. 487 p. (MLRA 8:9)

(Refractory materials)

1/1 M/ V i 'anslation from: Referativnyv zhurnal. Metallurgiya, 1956, N. 2, p 12 (USSR)

AUTHOR-Mamykin. P.S.

TITLE. The Physicochemical Processes Occurring in Refractories Unde:

Conditions of Operational Use in Nonferrous Metallurgy (Fiziko--khimicheskiye protsessy, protekayushchiye v ogneuporakh v

usloviakh sluzhby v tsvetnoy metallurgii)

FERIODICAL: V sb.: Fiz.-khim. osnovy keramiki Moscow, Promstroyizdat, 1956, pp 561-574

ABSTRACT.

Attention is given to the changes that occur in refractories (Dinas brick, magnesite-chromite, chrome-magnesite, magnesite. forsterite, and chamotte materials) during their use in copper smelting, reverberatory, and refining furnaces, in the lining of converters for copper mattes, in rotary furnaces for sintering and calcining Al₂O₃, electric furnaces for the purification of Al, retorts for distilling Zn, and in furnaces for extracting Pb from crude lead. General formulas are given for determining the degree of activity of the slag components, the time required for the refractory substance to dissolve in the slag, and the angle at which the refractory is wetted by the slag Bibliography 14 refs S.G.

Card 1/1

1. Refractory materials-Physical factors 2. Refractory materials 3. Refractory materials-Test methods 4. Refractory --Operation materials-Test results

PIRATYXIA, 13.

USSR /Chemical Technology. Chemical Products and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31572

Author : Ogarkov A. F., Mamykin P.S.

Title : Apparatus for the Determination of Resilient

Expansion of Moldings Produced from Refractory

Pastes

Orig Pub: Ogneupory, 1956, No 6, 274-276

Abstract: Description of an apparatus for the determina-

tion of resilient expansion of moldings (M) made from semi-dry, refractory pastes. It consists of a steel mold in which the paste is compressed by a dropping plunger which slides over three rods. Descent of the plunger is

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USSR Chemical Technology. Chemical Products and Their Application

1-12

4.10mm 12.10mm 12.10mm

Silicates, Glass, Ceramics, Binders,

Abs Jour: Referat Zhur - Knimiya, No 9, 1957, 31572

measured by means of an indicator arm with an accuracy within 0.01 mm. Height of the M in the mold, after removal of the plunger, is measured by means of a micrometric depth-meter, and after it has been removed from the mold, with an ordinary micro-meter. Resilient expansion of the M is the difference in its height following compression and after pressure has been removed.

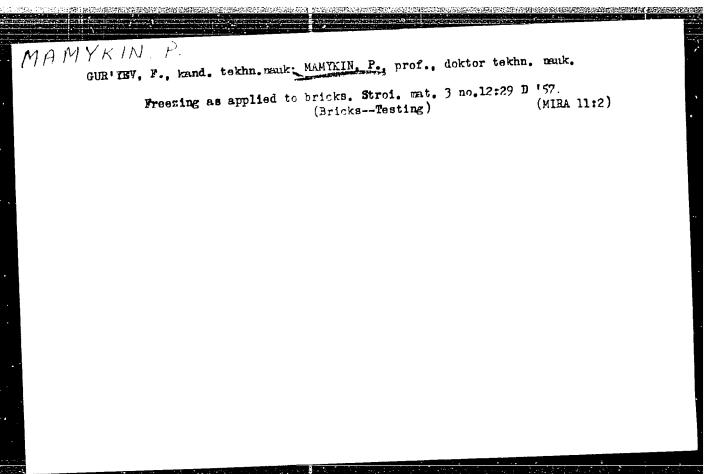
Card 2/2

MANTKIN, P.S.; ZLATKIN, S.G.; ZHUKOVSKIY, G.V.

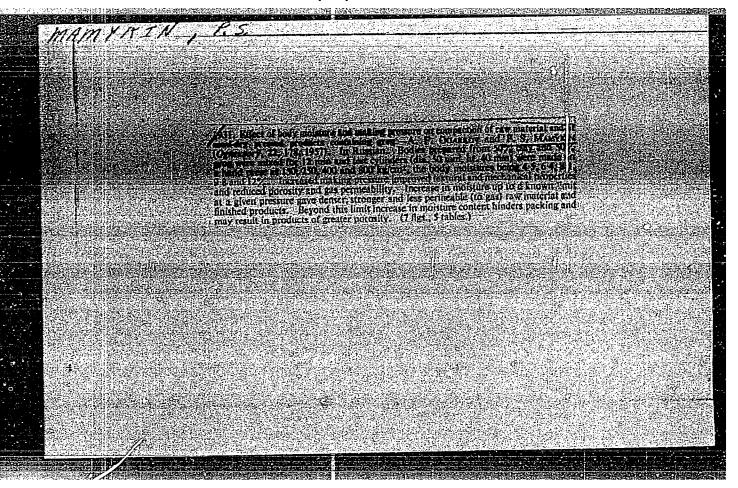
The preparation of Ural mountain refractory clays. Ogneupory 21 no.8:376-377 '56.

1. Ural'skiy Politekhnichesk'y institut imeni S.M.Kirova (for Manykin and Zlatkin). 2. Institut Uralmekhanobr (for Zhukovskiy).

(Ural Mountain region—Clays)



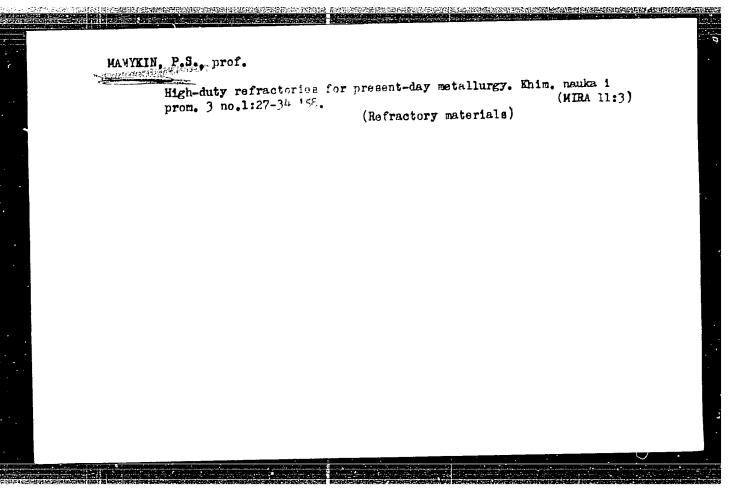
"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110007-6



OGARKOV, K.F.; MANTKIN, P.S.

Blastic dilatation of clay and grog mixtures in stiff-mud compression.
Ogneupory 22 no.9:398-406 '57. (MIRA 10:11)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.
(Pressed brick--Testing) (Refractory materials)



AUTHORS: Mamjkin, P. S., Semkina, N.V 30V/131-58-7-8/14

TITLE: The Influence of Hydrothermal Treatment of Class of the

Boxdanvichekove Deposit on Some of Their Properties

(Vliyaniye gidrotermal'noy obrabotki glin bogdanovichskogo

mestoro" deniya na nekotoryje ikh svovetvu)

PERIODICAL: Ogneupory, 1953, or 7, pp 325 - 326 (USSR)

ABSTRACT: This paper investigates the influence of such a treatment on the properties of the clay of the Mezhnikovskaya and Poldnevskaya beds of the Bogdanovichskoye deposit. The

percentile chemical composition of the two topes of clay is mentioned in table 1. The Mezhnikovskaya clay has a

satisfactory plasticity and binding quality and can be used for the production of chamotte products. The Poldnevskava

clay has less plasticity and represents a baking clay. It is difficult to obtain products from it by means of the plast-

ic or semi-dry method. The hydrothermal treatment was carried out as follows: the pressure in the autoclave was increased up to 8 atmospheres excess pressure in the course of 2 hours, and then it was again reduced to zero in the

course of the next 2 hours. The whole cycle of the

Card 1/2

The Influence of Hydrothermal Treatment of Clays of 50V/131-58-7-8/14 the Bogdanovichskoye Deposit on Some of Their Properties

hydrothermal treatment lasted 12 hours. The temperature in the autoclave amounted to from 160 to 1700 in the case of the highest pressure. Then the production of the different sample products was described. The changes in the quality of the clay after its treatment are given in table 2. As may be seen, the plasticity increased and the baking temperature dropped. In some cases such a treatment can be considered useful as regards technological aspects. There are 2 tables and 3 Soviet references.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut im. S.M. Kirova (Ural Pol, technical Institute imeni S. M. Kirov)

1. Clays--Processing 2. Clays--Properties 3. Clays--Applications

Card 2/2

MANTKIN, P.S.; MEJEKHOVA, T.F.

Talc as raw material in the production of forsterite refractories.

Izv.Sib.otd, AN SSSR no.9:75-87 '58. (MIRA 11:11)

1. Zapadno-Sibirskiy filial AN SSSR. (Forsterite) (Uderayskiy District-Talc)

15(6);25(1) PHASE I BOOK EXPLOITATION SOV/3246

Mamykin, Petr Sergeyevich, and Konstantin Konstantinovich Strelov

- Tekhnologiya ogneuporov (Production of Refractories) Sverdlovsk, Metallurgizdat, 1959. 446 p. Errata slip inserted. 6,800 copies printed.
- Ed.: I. P. Bas'yas; Ed. of Publishing House: N. N. Tsymbalist; Tech. Ed.: Ye. M. Zef.
- PURPOSE: This textbook is intended for the course, Production of Refractories, given at tekhnikums. It may also be useful for students of schools of higher technical education and technical personnel in refractory-producing and metallurgical plants.
- COVERAGE: The book deals with the more important refractory materials and their physicochemical properties. Equipment and machinery used in refractory production is described, and an explanation of the principles employed is given. The manufacture of refractories made of Dinas silica, aluminosilicates, magnesite, chromite-magnesite, forsterite, dolomite, carboniferous

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Production of Refractories SOV/3246 materials, and some light-weight materials is discussed. formation is given on refractory mortars, solutions, concretes, and glazes used in high-temperature service. Examples of design calculations and data on refractory wear are also included. Respence is made in the Introduction to a doctoral dissertation submitted by A. S. Berezhnoy. There are 20 references, TABLE OF CONTENTS: Introduction PART I. GENERAL PROBLEMS IN THE PROCESSING OF REFRACTORIES 3 Ch. I. Classification of Refractory Materials 11 Ch. II. Properties of Refractory Materials 1. Refractoriness 15 Service strength at high temperatures 15 17 Temperature of deformation under load Volume constancy at high temperatures 18 Spalling resistance 21 Destruction by slags. Other types of corrosion of 22 Card 2/18

15(2) AUTHORS:

Mamykin, P. S., D'yachkov, P. N.

SOV/131-59-1-5/12

TITLE:

Types of Clay of the Arkalykskoye Deposit and Their Use (Gliny Arkalykskogo mestorozhdeniya i ikh ispol'zovaniye)

PERIODICAL:

Ogneupory, 1959, Nr 1, pp 26 - 33 (USSR)

ABSTRACT:

In the present article the authors reported on the testing results of 530 sectional and 10 prospecting samples taken by the Turgayskaya ekspeditsiya Karagandinskogo geologorazvedochnogo upravleniya (Turgayskaya Expedition of the Karagandinskoye Administration for Geological Prospectivg) (Tables 1, 2 and 3). The Arkalykskoye deposit is situated 224 km south of the railroad station of Yesil' of the Karagandinskaya railroad line and is intended to supply Kazakhstan, West Siberia and the South Ural with fireclay products in the future. Composition and properties of the sectional proofs were examined (Figs 1, 2 and 3) and the dependence of some clay properties was determined. Further, laboratory tests were caused concerning the composition and properties of prospecting proofs. Figures 4 and 5 show the

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heating curves of various type of clay. The ceramic

Types of Clay of the Arkalykskaya Deposit and Their SOV/131-59-1-5/12 Use

> properties of clay prospecting proofs are shown in table 4. Table 5 shows the composition of layers and the properties of dried unworked pieces, while tables 6 and 7 show the ceramic properties of the laboratory samples from typical layers. Conclusions: the layers rich in fireproof clay with a content between 20 and 25 % of binding of clay from the same deposit are regarded as the optimum layers for the manufacture of products from the type of clay of the Arkalykskoye deposit. For quality products made of these kinds of clay a burning at temperatures of 1400-1420, or 1480-1500, is required. These type of clay are recommended as a valuable raw material for the manufacture of fireclay and highly aluminous products. There are 7 figures, 7 tables, and 2 Soviet references.

ASSOCIATION: Ural'skoye otdeleniye Vsesoyuznogo instituta ogneuporov (Urals Department of the All-Union Institute for Refractories)

Card 2/2

5/081/61/000/009/008/015 B101/B203

Mamykin, P. S., Semkina. N. V. AUTHORS:

Sintering of Yeleninskiy kaolin as dependent on its TITLE:

roasting temperature and admixtures of the oxides MgO, CaO,

 $\text{Fe}_2^{\,\,\,0}_3$, TiO_2 , $\text{Na}_2^{\,\,\,\,0}$, and $\text{K}_2^{\,\,\,\,\,0}$

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1961, 319, abstract

9 1228 (9K228) ("Tr. Vost. in-ta ogneuporov", 1959, vyp. I,

54 **-** 39)

TEXT: The authors studied the effect of the following oxides: Na,0, ${
m K_2O}$, MgO, CaO, ${
m Fe_2O_3}$, and ${
m TiO_2}$ on the sintering process of elutriated kaolin from the Yeleninskoye deposit. The first two oxides were admixed in the form of sinters, the others as chemically pure oxides. The following quantities of admixtures were added referred to oxides: 0.5; 1.0; 1.5; and 2%. In the sintering process, part of the admixtures (Na20, K20. TiO2) have an activating and intensifying effect on the process, the other admixtures (CaO, MgO) show an inhibitory effect. To Card 1/2

S/081/61/000/009/008/015 B101/B203

Sintering of Yeleninskiy...

increase the degree of sintering it is necessary to diffuse the cation of the admixture in the crystal lattice thus forming intermediate compounds which destroy the lattice, or forming solid solutions which activate the lattice. [Abstracter's note: Complete translation.]

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.15(2)

AUTHORS: Mamykin, P. S., D'yachkov, P. N. S0V/131-59-6-7/15

TITLE

The Sintering of Calciumoxide and the Production of Crucibles for Melting Platinum and Palladium (Spekaniye okisi kal'tsiya i izgotovleniye tigley dlya plavki

platiny i palladiya)

PERIODICAL:

Ogneupory, 1959, Nr 6, pp 267-272 (USSR)

ABSTRACT:

The authors carried out this investigation because of the need for fire-proof calcium products. The basic raw material used was chalk, the composition of which is mentioned. Table 1 gives the qualities of the chalk specimens after being

burned at a temperature interval of 1150 - 1740°. In the course of 33 - 40 days they decompose due to the hydration of the clinker. Further experiments were made with various admixtures. The best plastification liquids proved to be: a 4 - 5% shellac solution in anhydrous rectified alcohol; the 2 - 3% plexiglass solution in dichlorethane or trichlorethylene. In order to explain the influence of the grain composition qualities of the products of calciumoxide, rammed specimens were dried and burned for 30 minutes at a

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The Sintering of Calciumoxide and the Production of SOV/131-59-6-7/15 Crucibles for Melting Platinum and Palladium

temperature of 1740°. Table 2 shows the grain composition of the test mass. Table 3 gives the properties of calciumoxide products. Furthermore the production and testing of burned crucibles is described. The crucibles for melting platinum and palladium were made of the masses I and VI and tested in a high frequency furnace GLE-61A with a performance of 60 kw, and in a vacuum furnace MPV-2. The figure shows an unburnt crucible which was rammed in two layers: calciumoxide inside and electro-melted magnesia outside. The rammed bricks were tested in the high-frequency furnace GLE-61A. Table 4 shows the impurity of platinum in the melting process. Conclusion: The full sintering of calciumoxide is reached at about 1740°. With an addition of TiO₂ sintering occurs at 1650°. Burnt

and unburnt crucibles for melting technically pure platinum and palladium in high-frequency furnaces under normal conditions, as well as under vacuum conditions, can be produced from sintered calciumoxide with the binding agents of plexiglass solution in dichlorethane and shellac in alcohol. There are 1 figure, 4 tables, and 10 references, 6 of which are Soviet.

Card 2/3

The Sintering of Calciumoxide and the Production of SOV/131-59-6-7/15 Crucibles for Melting Platinum and Palladium

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova (Ural Polytechnic Institute imeni S. M. Kirov)

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15(2)

SOV/131-59-12-1/15

AUTHORS:

Mamykin, P. S., Syreyshchikov, Yu. D.

TITLE:

Manufacture of Forsterite Products From Asbestos Scraps

PERIODICAL:

Ogneupory, 1959, Nr 12, pp 529-538 (USSR)

ABSTRACT:

In the present paper the experiment of replacing the process of briquetting asbestos scraps by granulation is described. Granulation and chemical composition of five kinds of scraps may be seen from tables 1 and 2. Figure 1 shows thermograms of asbestos scraps of Kurnakov. Asbestos scraps exhibit less refractoriness than serpentinites of Bedenskoye, Bazhenovskoye, and Belorechenskoye deposits. Table 3 indicates the refractoriness of scraps in dependence on magnesite powder addition. Further the granulation of furnace charges with magnesite addition is described and table 4 lists the chemical composition of utilized magnesites. Figure 2 shows granules obtained at dimensions of 7 to 15 mm. The granule- and briquette properties after burning are indicated in table 5. Samples were made from granulated and briquetted clinker the composition and main characteristics of which may be seen from table 6. Further the possibility of marefacturing Periklas-Forsterite products is

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SOV/131-59-12-1/15

Manufacture of Porsteribe Product Free Adventos Scraps

investigated the error office of which are indicated in table 7. In the "Magmezia" order a experimental set of Forsteriteand Periklas-Foreterite reducts were manufactured according to the briquetti - - - thod and described in detail. Their chemical composition and properties are shown by table find their micro- on the by figures 3 and 4. The Forsterite- and Periklas-Forstands bricks were tested in the checkered bricks, me ators of an open-hearth furnace of work of airthe Nizhne T jillskiy tetallurgicheskiy kombinat (Nizhniy Tagil Mar allurgical Mombinat) and it was found that their composition and properties changed only inconsiderably after use (Table 9). Only Forsterice bricks were subjected to destruction in a high degree. Petrographic analyses of these bricks were carried out by T. F. Raychenko; Figures 5 and 6 show their microstructure. Tigures 7 and 8 show the microstructure of Foreterite bricks from asbestos scraps and unburned dunite. In conclusion to a course state that asbestos scraps may be used as raw material for the manufacture of Forsterite products with a porosity below 20%. By addition of 30% magnesite all properties of these products in improved. Granulating the finely ground charge her relace the briquetting of the charge without

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SOV/131-59-12-1/15
Manufacture of Forsterite Products From Asbestos Scraps

involving a reduction in quality. Thus the use of serpentinites, talcs and other similar rocks for the manufacture of Forsterite products is made possible. There are 10 figures, 9 tables, and 6 Soviet references.

ASSOCIATION: Vostochnyy institut ogneuporov (Eastern Institute of Refractories)

Card 3/3

MAMYKIN, P. S.; KAYBICHEVA, M. N.

Sintering additives for daub on a basis of metallurgical management powders. Trudy Vost. inst. lgmeup. no.2:132-142 (MIRA 16:1)

(Refractory materials)